



Clear Version of Claims

22. A heat shrink film comprising:
- (a) a first barrier layer, said first barrier layer having two opposing surfaces; and
  - (b) second and third layers, said first barrier layer being disposed between said second and third layers, said second and third layers comprising a polymer formed by the polymerization reaction with a single site catalyst and wherein said heat shrink film is irradiated.
23. The heat shrink film according to claim 22, wherein said second and third layers comprise an ethylene polymer formed by the polymerization reaction with a single site catalyst.
24. The heat shrink film according to claim 22, wherein said second and third layers comprises a propylene polymer formed by the polymerization reaction with a single site catalyst.
25. The heat shrink film according to claim 23, wherein the polymer is a copolymer of ethylene.
26. The heat shrink film according to claim 25, wherein the polymer is a copolymer of ethylene and a C<sub>3</sub>-C<sub>20</sub> alpha olefin.
27. The heat shrink film according to claim 22, wherein said single site catalyst is metallocene.
28. The heat shrink film according to claim 26, wherein said alpha olefin is butene-1.
29. The heat shrink film according to claim 26, wherein the alpha olefin is hexene-1.

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30. The heat shrink film according to claim 26, wherein the alpha olefin is octene-1.

31. The heat shrink film according to claim 22, wherein said first barrier layer comprises ethylene vinyl alcohol copolymer.

32. The heat shrink film according to claim 22, wherein said first barrier layer has a thickness of between about 10 and about 30 gauge.

33. The heat shrink film according to claim 22, wherein said first barrier layer has a thickness of about 20 gauge.

34. The heat shrink film according to claim 22, wherein said second layer has a thickness of between about 40 and about 50 gauge, and wherein said second layer is an inner sealant layer.

35. The heat shrink film according to claim 22; wherein said second layer has a thickness of about 45 gauge.

36. The heat shrink film according to claim 22, wherein said third layer has a thickness of between about 110 and about 120 gauge.

37. The heat shrink film according to claim 22, wherein said third layer has a thickness of about 115 gauge.

38. The heat shrink film according to claim 22, wherein said first barrier layer has a thickness of about 20 gauge, said second layer has a thickness of about 45 gauge, and said third layer has a thickness of about 115 gauge.

39. A package made from the film of claim 22.

40. A heat shrink film comprising:

(a) a first barrier layer, said first barrier layer being disposed between a second a third layer; and

(b) the second and third layers comprising ethylene alpha-olefin copolymer formed by the polymerization reaction with a single site catalyst;  
wherein said film is irradiated.

41. The heat shrink film of claim 40 wherein an adhesive layer is disposed between each of said second layer and said barrier layer and said third layer and said barrier layer.

42. The heat shrink film according to claim 40, wherein said first barrier layer comprises ethylene vinyl alcohol copolymer.

43. The heat shrink film according to claim 40, wherein said first barrier layer has a thickness of between about 10 and about 30 gauge, said second layer has a thickness of between about 40 and about 50 gauge, and said third layer has a thickness of between about 110 and about 120 gauge.

44. A package made from the film of claim 40.